## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

**Lab ID** : **CP-2017-05-08-07** **Date: 11-05-17**

**Customer** : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

**Address** : Shettyhalli Sub Division, BBMP, Bangalore.

**Project Name** : Providing New Boards & Repaint the Boards in ward no.13 in Shettyhalli Sub Division.

**Agency** : Sri.V.Mohan Kumar, 127, Kuvempu Nagara, Jalahalli 2nd stage, Bengaluru.

**Customer's Reference** : EE/DD/WO/139/16-17

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 08-05-17

**Sample ID No** : 2017-05-08-07/01

**Sample Type** : Birla Super 53grade

**Reference to BIS codes** : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

**Date of test** : 09-05-17

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 2.35 | – |
| 2 | Finess by Air permeablity method ($m^2$/kg, Min) | 245.5 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.25 | – |
| 4 | Standard Consistency (%) | 27.5% | Not specified |
| 5 | Initial Setting time | 145 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 250 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 2mm | Not more than 10 mm |

**Note:**

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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ಶ್ರೀ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಹತ್ತ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಸು.ಎಂ. ರಸ್ತೆ, ರಮಣಮಹರ್ಷಿ, ಬೆಂಗಳೂರು

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**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**



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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-05-08-07** **Date: 06-06-17** |
| **Customer** | : | Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Shettyhalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Providing New Boards & Repaint the Boards in ward no.13 in Shettyhalli Sub Division. |
| **Agency** | : | Sri.V.Mohan Kumar, 127, Kuvempu Nagara, Jalahalli 2nd stage, Bengaluru. |
| **Customer's Reference** | : | EE/DD/WO/139/16-17 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 08-05-17 |
| **Sample ID No** | : | 2017-05-08-07/01 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 6, Determination of Compressive Strength, Clause 6 |
| **Date of test** | : | 09-05-17 |

**Compressive Strength**

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | 3 Days | 28.5N/mm$^2$ | Not less than 27 N/mm$^2$ |
| 2 | 7 Days | 38.0N/mm$^2$ | Not less than 37 N/mm$^2$ |
| 3 | 28 Days | 54.5N/mm$^2$ | Not less than 53 N/mm$^2$ |

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಬಾಪೂಜಿ ನಗರ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಮಸ.ಎಂ. ರಸ್ತೆ, ಯಶವಂತಪುರ, ಬೆಂಗಳೂರು-೫೬೦ ೦೨೨

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager


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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-05-08-07** **Date: 12-05-17** |
| **Customer** | : | Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Shettyhalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Providing New Boards & Repaint the Boards in ward no.13 in Shettyhalli Sub Division. |
| **Agency** | : | Sri.V.Mohan Kumar, 127, Kuvempu Nagara, Jalahalli 2nd stage, Bengaluru. |
| **Customer's Reference** | : | EE/DD/WO/139/16-17 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample condition** | : | Satisfactory |
| **Date of Receipt** | : | 08-05-17 |
| **Sample ID No** | : | 2017-05-08-07/02(a) |
| **Sample Type** | : | 40mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 08-05-17 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**

**Total weight taken : 15000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 80 mm | 0 | 0 | 0.0 | 100 | 100 |
| 2 | 40 mm | 230 | 230 | 1.5 | 98.5 | 90-100 |
| 3 | 20 mm | 5423 | 5653 | 37.7 | 62.3 | 30-70 |
| 4 | 10 mm | 4660 | 10313 | 68.8 | 31.2 | 10-35 |
| 5 | 4.75 mm | 4221 | 14534 | 96.9 | 3.1 | 0-5 |
| 6 | Pan | 466 | 15000 | 100.0 | 0 | --- |

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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2017-05-08-07** **Date: 12-05-17**

**Sample ID No** : 2017-05-08-07/02(a)

### PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | **11.6** | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | **10.9** | |
| 3 | Specific Gravity | **2.69** | – |
| 4 | Bulk Density(Loose) (Kg/l) | **1.57** | – |
| 5 | Bulk Density(Compacted) (Kg/l) | **1.59** | – |
| 6 | Water Absorption(%) | **0.22** | – |

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Authorized Signatory
**Quality Manager**


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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-05-08-07** **Date: 12-05-17** |
| **Customer** | : | Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Shettyhalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Providing New Boards & Repaint the Boards in ward no.13 in Shettyhalli Sub Division. |
| **Agency** | : | Sri.V.Mohan Kumar, 127, Kuvempu Nagara, Jalahalli 2nd stage, Bengaluru. |
| **Customer Reference** | : | EE/DD/WO/139/16-17 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 08-05-17 |
| **Sample ID No** | : | 2017-05-08-07/02(b) |
| **Sample Type/ Size** | : | 20mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 08-05-17 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:**

**Total weight taken : 5000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 40 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 20 mm | 245 | 245 | 4.9 | 95.1 | 90-100 |
| 3 | 10 mm | 2564 | 2809 | 56.2 | 43.8 | 25-55 |
| 4 | 4.75 mm | 1850 | 4659 | 93.2 | 6.8 | 0-10 |
| 5 | Pan | 341 | 5000 | 100 | 0 | – |

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M: 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2017-05-08-07** **Date: 12-05-17**

**Sample ID No** : 2017-05-08-07/02(b)

### PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | **12.4** | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | **11.7** | |
| 3 | Specific Gravity | **2.66** | _ |
| 4 | Bulk Density(Loose) (Kg/l) | **1.49** | _ |
| 5 | Bulk Density(Compacted) (Kg/l) | **1.53** | _ |
| 6 | Water Absorption(%) | **0.24** | _ |
| 7 | Aggregate crushing Value(%) | **22.9** | Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface. |
| 8 | Aggregate Impact Value(%) | **21.7** | 30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface. |

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**Quality Manager**



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

# TEST REPORT OF FINE AGGREGATE

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-05-08-07** **Date: 12-05-17** |
| **Customer** | : | Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Shettyhalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Providing New Boards & Repaint the Boards in ward no.13 in Shettyhalli Sub Division. |
| **Agency** | : | Sri.V.Mohan Kumar, 127, Kuvempu Nagara, Jalahalli 2nd stage, Bengaluru. |
| **Customer's Reference** | : | EE/DD/WO/139/16-17 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 08-05-17 |
| **Sample ID No** | : | 2017-05-08-07/03 |
| **Sample Type** | : | Fine Aggregate |
| **Reference to BIS codes** | : | IS 383 : 2016 (Specification for Coarse and fine Aggregates)<br>IS: 2386 :1963(Part - 1, 3) RA2012<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption |
| **Date of test** | : | 08-05-17 |
| **Total weight taken** | : | 1000 grams |

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Grading Zone I | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1 | 10 mm | 0 | 0 | 0.0 | 100.0 | 100 | 100 | 100 | 100 |
| 2 | 4.75 mm | 88 | 88 | 8.8 | 91.2 | 90-100 | 90-100 | 90-100 | 95-100 |
| 3 | 2.36 mm | 144 | 232 | 23.2 | 76.8 | 60-95 | 75-100 | 85-100 | 95-100 |
| 4 | 1.18 mm | 189 | 421 | 42.1 | 57.9 | 30-70 | 55-90 | 75-100 | 90-100 |
| 5 | 600 micron | 179 | 600 | 60.0 | 40.0 | 15-34 | 35-59 | 60-79 | 80-100 |
| 6 | 300 micron | 166 | 766 | 76.6 | 23.4 | 5-20 | 8-30 | 12-40 | 15-50 |
| 7 | 150 micron | 146 | 912 | 91.2 | 8.8 | 0-10 | 0-10 | 0-10 | 0-15 |
| 8 | Pan | 88 | 1000 | 100.0 | 0.0 | --- | --- | --- | --- |
| **Result :The tested Sample Conforms to Grading Zone II** | | | | | | | | | |



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# TEST REPORT OF FINE AGGREGATE

**Lab ID** : **CP-2017-05-08-07** **Date: 12-05-17**

**Sample ID No** : 2017-05-08-07/03

## PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS 383:2016 |
|---|---|---|---|
| 1 | Water Absorption(%) | 1.9 | _ |
| 2 | Specific Gravity | 2.59 | _ |
| 3 | Material finer than 75 micron(%) | 5.2 | Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10% |

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ಕಬ್ಬಿಣಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಪೆಂಗಳೂರು

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**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**


****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2017-05-22-09** **Date: 24/05/2017**

**Customer** : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

**Address** : Shettyhalli Sub Division, BBMP, Bangalore.

**Project Name** : Providing New Boards & Repaint the Boards in ward no.13 in Shettyhalli Sub Division.

**Agency** : Sri.V.Mohan Kumar, 127, Kuvempu Nagara, Jalahalli 2nd stage, Bengaluru.

**Customer's Reference** : EE/DD/WO/139/16-17

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 08-05-17

**Sample ID No** : 2017-05-22-09/01

**Customer ID** : PCC

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 24/05/2017

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M20 | 17/05/2017 | 24/05/2017 | 150.22 X 150.30 X 150.35 | 22578 | 8.390 | 420.0 | 18.6 | 18.5 |
| 2 | PCC | M20 | 17/05/2017 | 24/05/2017 | 150.43 X 150.37 X 150.30 | 22620 | 8.453 | 427.5 | 18.9 | |
| 3 | PCC | M20 | 17/05/2017 | 24/05/2017 | 150.32 X 150.30 X 150.31 | 22593 | 8.412 | 408.9 | 18.1 | |

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಮತ್ತು ಬೆಂಗಳೂರು
ರನ್ನ. ಜಲಿಂದ್ರನಗರ, ಬೆಂಗಳೂರು


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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2017-05-22-09** **Date: 14/06/2017**

**Customer** : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

**Address** : Shettyhalli Sub Division, BBMP, Bangalore.

**Project Name** : Providing New Boards & Repaint the Boards in ward no.13 in Shettyhalli Sub Division.

**Agency** : Sri.V.Mohan Kumar, 127, Kuvempu Nagara, Jalahalli 2nd stage, Bengaluru.

**Customer's Reference** : EE/DD/WO/139/16-17

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 08-05-17

**Sample ID No** : 2017-05-22-09/02

**Customer ID** : PCC

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 14/06/2017

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M20 | 17/05/2017 | 14/06/2017 | 150.34 X 150.30 X 150.38 | 22596 | 8.443 | 508.4 | 22.5 | 22.5 |
| 2 | PCC | M20 | 17/05/2017 | 14/06/2017 | 150.43 X 150.41 X 150.39 | 22626 | 8.470 | 515.9 | 22.8 | |
| 3 | PCC | M20 | 17/05/2017 | 14/06/2017 | 150.32 X 150.37 X 150.33 | 22604 | 8.465 | 501.8 | 22.2 | |

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಮಿಸ್. ಎಂ. ಪಸ್ಟ್, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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